Performance Data Sheet

AE4425Z-AA1A

General Information

Model	AE4425Z-AA1A	**Refrigerant**	R-404A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	1580	1480	1320	1140	994	931	998
	Watts	220	228	237	245	252	257	259
	Amps	3.37	3.39	3.43	3.47	3.51	3.53	3.53
	Lb/h	24.3	24.3	23.0	21.5	20.4	20.7	23.2
10	Btu/h	1800	1700	1520	1310	1120	1000	991
	Watts	228	237	247	256	264	271	275
	Amps	3.41	3.44	3.48	3.53	3.58	3.61	3.63
	Lb/h	27.9	28.0	26.7	24.8	23.2	22.6	24.0
15	Btu/h	2040	1940	1750	1510	1280	1100	1030
	Watts	234	245	256	267	277	285	291
	Amps	3.44	3.48	3.54	3.60	3.65	3.70	3.73
	Lb/h	31.6	32.0	30.8	28.7	26.6	25.3	25.7
20	Btu/h	2280	2190	1990	1740	1470	1240	1100
	Watts	240	252	264	277	288	299	307
	Amps	3.48	3.52	3.59	3.66	3.73	3.79	3.83
	Lb/h	35.5	36.4	35.3	33.0	30.6	28.7	28.2
25	Btu/h	2530	2450	2250	1980	1680	1410	1200
	Watts	245	258	272	286	299	312	322
	Amps	3.50	3.56	3.63	3.71	3.80	3.88	3.94
	Lb/h	39.5	40.9	40.1	37.9	35.1	32.8	31.6
30	Btu/h	2780	2720	2520	2240	1910	1600	1340
	Watts	248	263	278	294	310	324	336
	Amps	3.53	3.59	3.67	3.77	3.87	3.96	4.04
	Lb/h	43.6	45.6	45.1	43.1	40.2	37.5	35.6
35	Btu/h	3020	2980	2790	2500	2160	1810	1500
	Watts	249	266	284	302	319	336	350
	Amps	3.54	3.61	3.71	3.82	3.93	4.04	4.14
	Lb/h	47.7	50.4	50.5	48.6	45.8	42.7	40.4
40	Btu/h	3250	3240	3070	2780	2420	2040	1680
	Watts	249	268	287	308	327	346	363
	Amps	3.54	3.63	3.73	3.86	3.99	4.12	4.24
	Lb/h	51.7	55.3	56.0	54.5	51.8	48.6	45.8

45	Btu/h	3480	3500	3340	3050	2680	2280	1880
	Watts	247	268	290	312	334	356	375
	Amps	3.53	3.63	3.75	3.89	4.04	4.19	4.33
	Lb/h	55.7	60.3	61.7	60.7	58.1	54.9	51.8
50	Btu/h	3680	3740	3610	3330	2950	2520	2090
	Watts	243	266	290	315	340	364	386
	Amps	3.51	3.62	3.76	3.91	4.08	4.25	4.41
	Lb/h	59.5	65.2	67.5	67.0	64.8	61.6	58.3
55	Btu/h	3870	3970	3870	3600	3220	2780	2320
	Watts	237	262	289	316	343	370	396
	Amps	3.48	3.60	3.75	3.93	4.11	4.30	4.49
	Lb/h	63.2	70.1	73.3	73.6	71.8	68.8	65.4
60	Btu/h	4030	4180	4110	3860	3480	3030	2540
	Watts	229	256	285	315	345	375	404
	Amps	3.43	3.57	3.74	3.93	4.13	4.34	4.55
	Lb/h	66.7	74.9	79.1	80.2	79.0	76.3	72.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-5.372724E+03	2.402946E+02	4.425229E+00	-1.123606E+02
C2	-5.094023E+01	1.150557E+00	1.427115E-02	-1.244572E+00
C3	2.252459E+02	-2.119097E+00	-3.755072E-02	4.174671E+00
C4	-3.939492E-01	-3.184715E-02	-1.495117E-04	-1.224324E-02
C5	2.304415E+00	-2.818229E-03	-2.139932E-04	4.39736E-02
C6	-2.402403E+00	3.112625E-02	4.039892E-04	-4.259572E-02
C7	-5.328349E-03	-2.223437E-04	-1.751258E-06	-6.254631E-05
C8	9.873816E-03	2.695205E-04	1.789159E-06	2.270862E-04
C9	-1.463900E-02	1.202402E-04	1.766608E-06	-2.567927E-04
C10	8.008635E-03	-1.129527E-04	-1.332694E-06	1.407177E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature